	Application No.	Applicant(s)
Notice of Allowability		
	10/603,041 Examiner	LYTLE ET AL. Art Unit
	LAdimilei	Artonic
	Alexander G. Ghyka	2812
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to		
		ALEXANDER GHYKA
2. The allowed claim(s) is/are <u>1-11,13,15 and 16</u> .		PRIMARY EXAMINER
 3. Acknowledgment is made of a claim for foreign priority unally all blacks. a) All blacks Some* claim for foreign priority unall not black. blacks Some* claim for foreign priority unall not blacks. 1. Certified copies of the priority documents have a claim for foreign priority unall not black. 2. Certified copies of the priority documents have a claim for foreign priority unall not black. 	been received.	AU 2812
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF		
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
AMachanaussa)		
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Da 8), 7. ⊠ Examiner's Amendr	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. Other	

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Lester H. Birnbaum on August 14, 2006.

The application has been amended as follows:

In Claim 1, line 10: delete "with no etch stop layer formed thereon";

and insert -- wherein the hardmask is not in contact with the bottom of the

trench --.

In Claim 13, line 10: delete " with no etch stop layer formed thereon";

and insert -- wherein the hardmask is not in contact with the bottom of the

trench --.

Cancel Claims 14 and 17.

Allowable Subject Matter

Claims 1-11, 13 and 15-16 are allowed.

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The following is an examiner's statement of reasons for allowance: The closest prior art known to the Examiner is listed on the PTO 892 forms of record. None of the references or combinations thereof anticipate or make obvious, *inter alia*, etching the hardmask and partially etching the dielectric to deepen the at least one first elongated opening to form a trench the trench having a bottom in the dielectric layer wherein the hardmask is not in contact with the bottom of the trench; removing the first photoresist; and applying a second photoresist and photodefining at least one second opening transverse to the at least one trench so as to expose a portion of the dielectric defined by an intersection of the first and second openings, as required by the presently claimed invention. Therefore, the present claims are allowable over the cited prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander G. Ghyka whose telephone number is (571) 272-1669. The examiner can normally be reached on Monday through Friday during general business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on (571) 272-1873. The fax phone

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number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AGG

August 16, 2006

ALEXANDER GHYKA PRIMARY EXAMINER

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